

Fig. 1 Prior Art

Bus	Flowgate		
	A	B	C
1	0.70	0.30	0.30
2	0.80	0.20	0.20
3	0.90	0.10	0.10
4	0.60	0.40	0.40
5	0.60	-0.60	0.40
6	0.50	-0.50	0.50
7	0.55	-0.55	0.45
8	0.20	-0.20	-0.20
9	0.05	-0.05	-0.05
10	-0.01	0.01	0.01
11	0.00	0.00	0.00
12	-0.05	0.05	0.05

Fig. 2 Prior Art

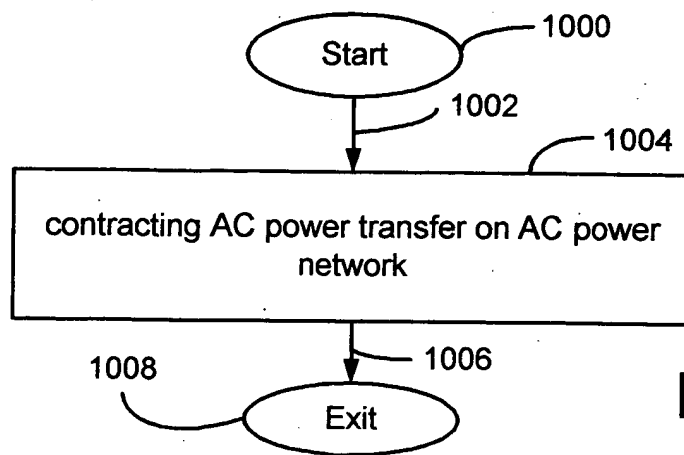


Fig. 3

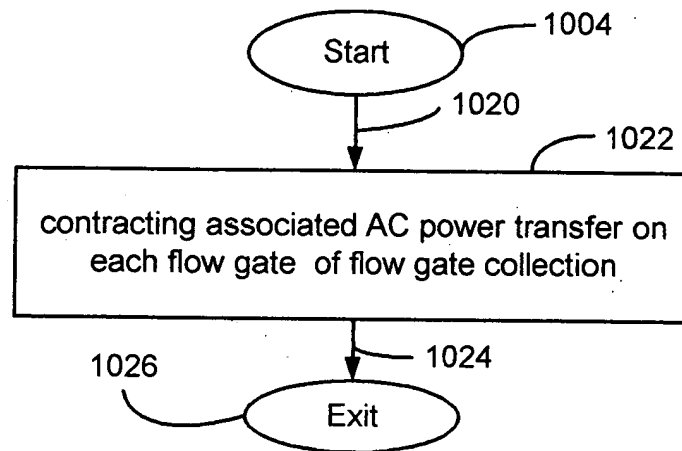


Fig. 4

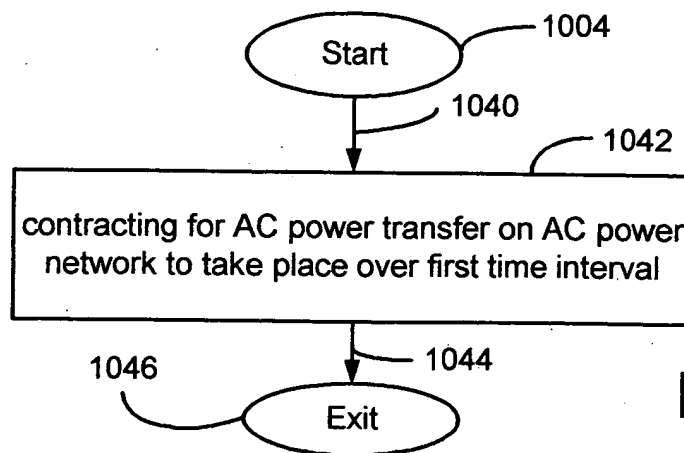


Fig. 5

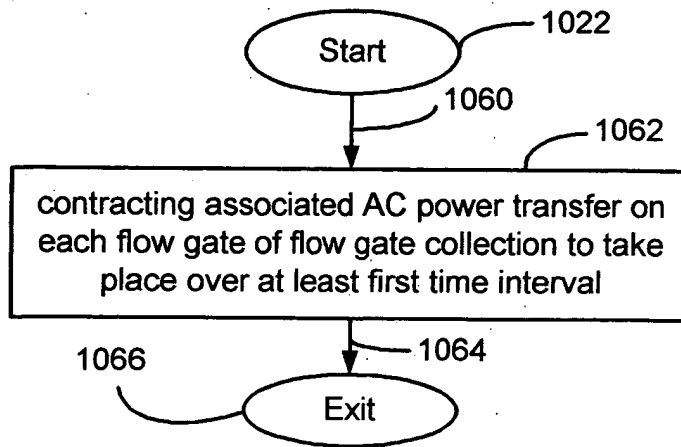


Fig. 6

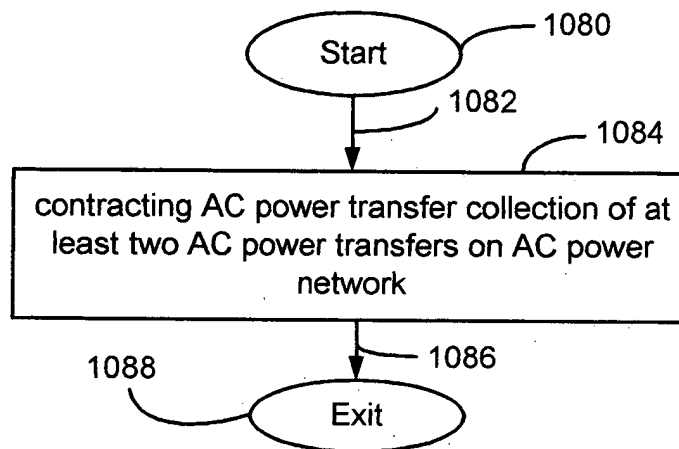


Fig. 7

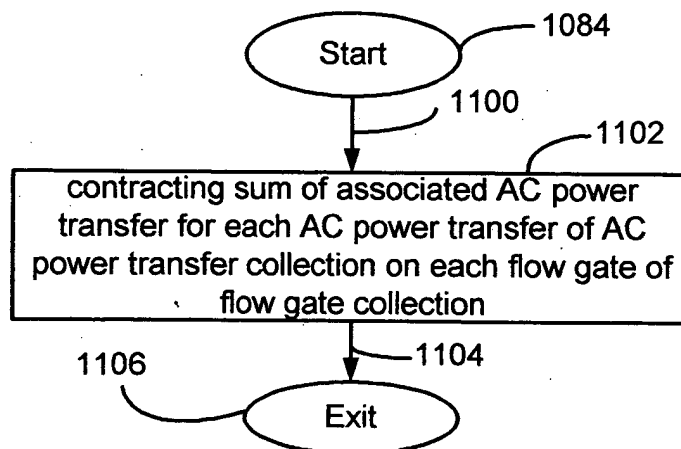


Fig. 8

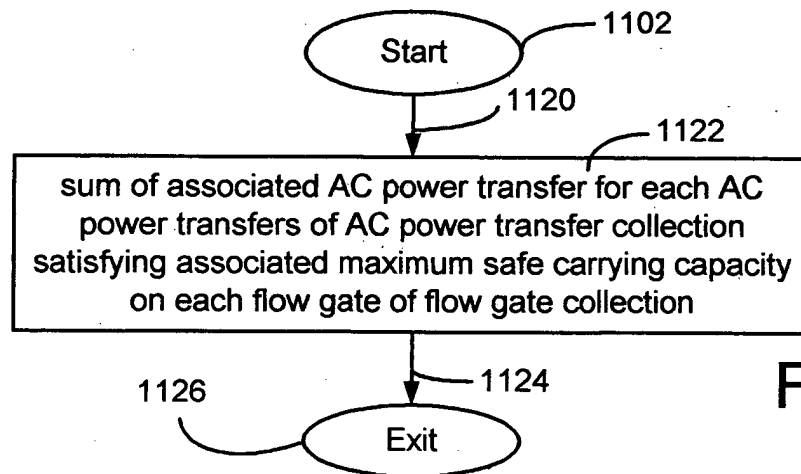


Fig. 9

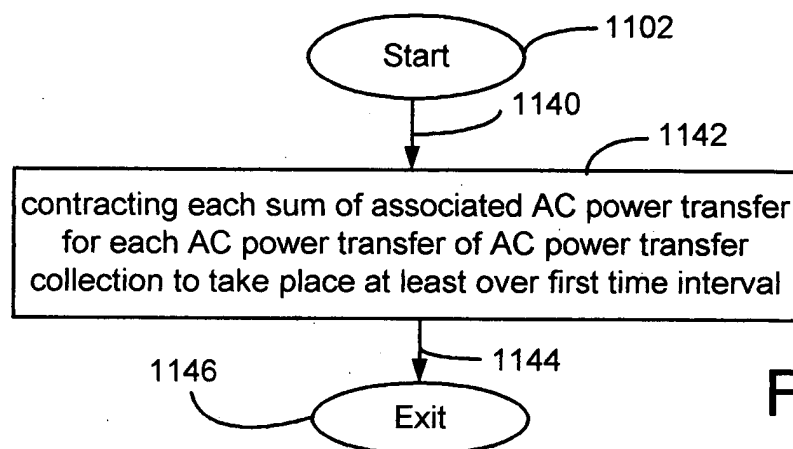


Fig. 10

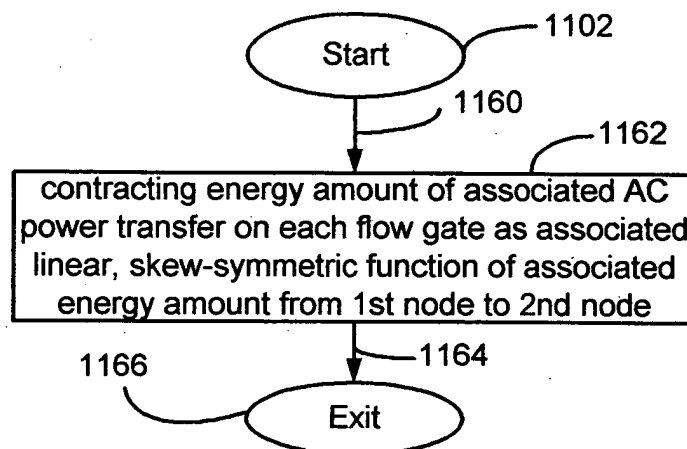


Fig. 11

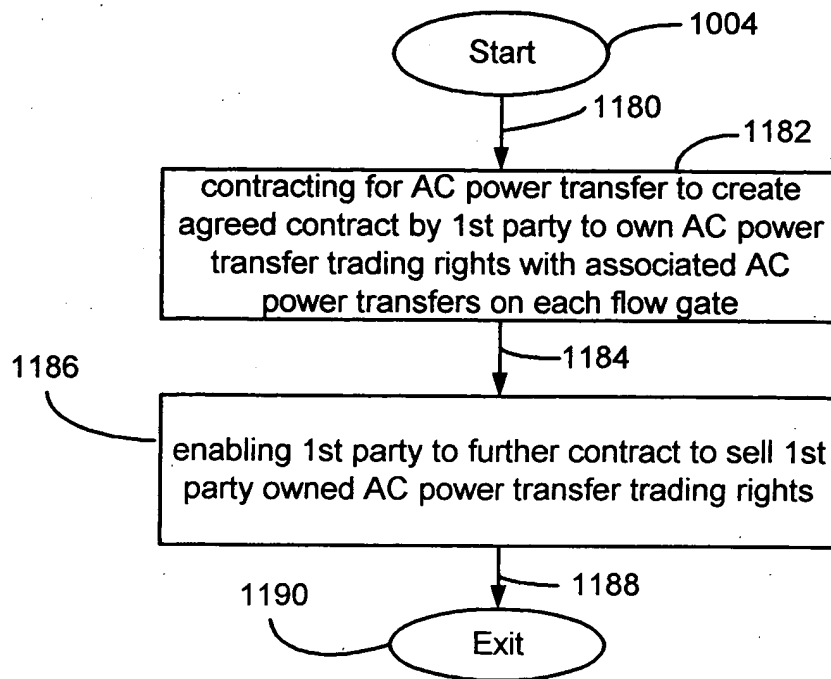


Fig. 12

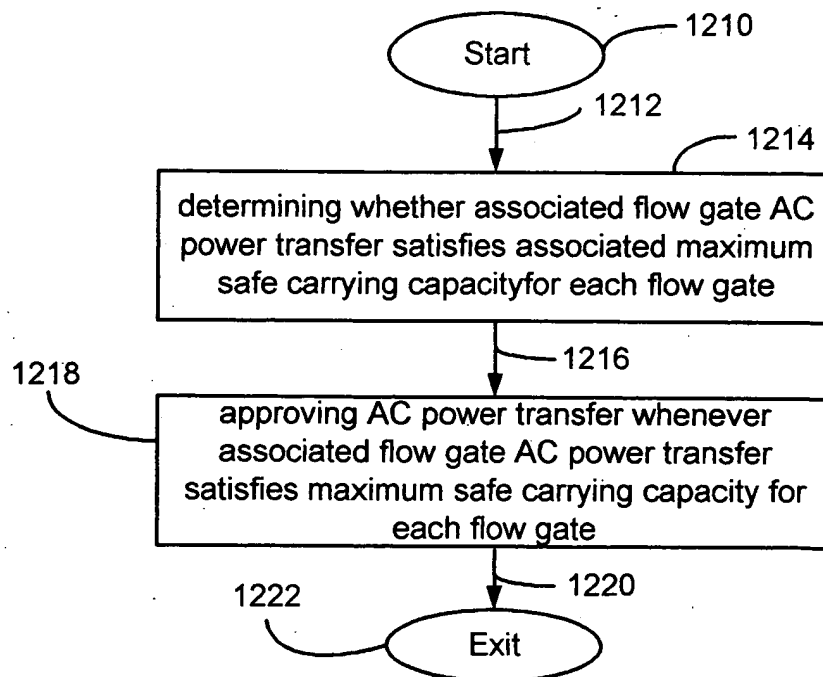


Fig. 13

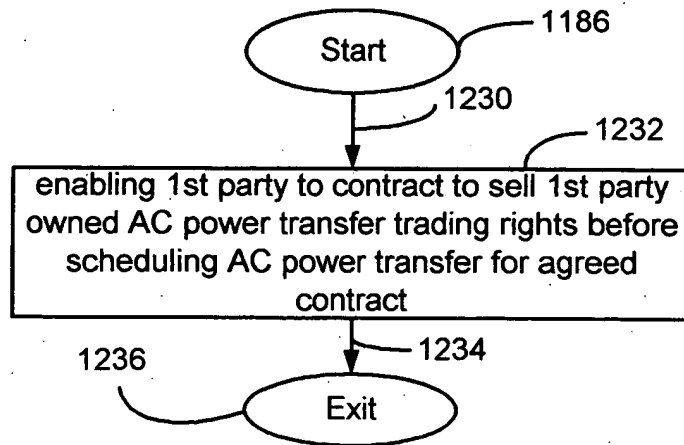


Fig. 14

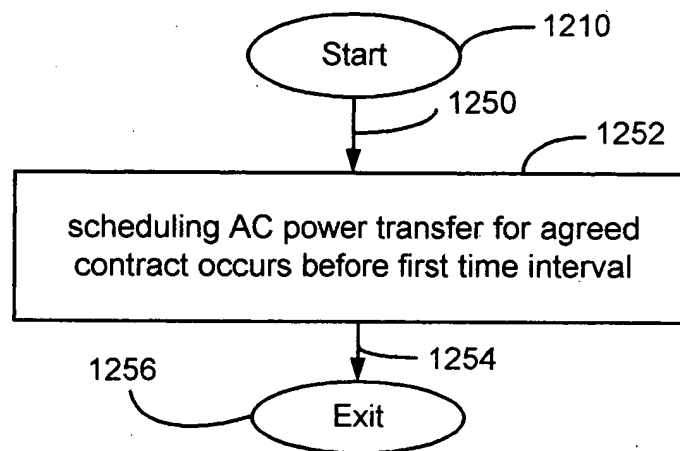


Fig. 15

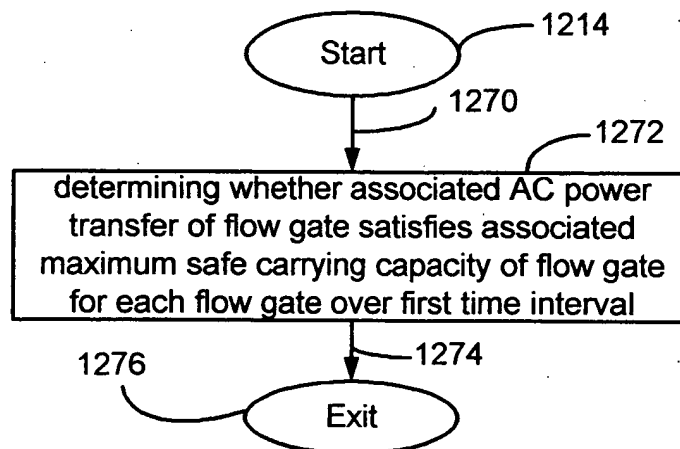


Fig. 16

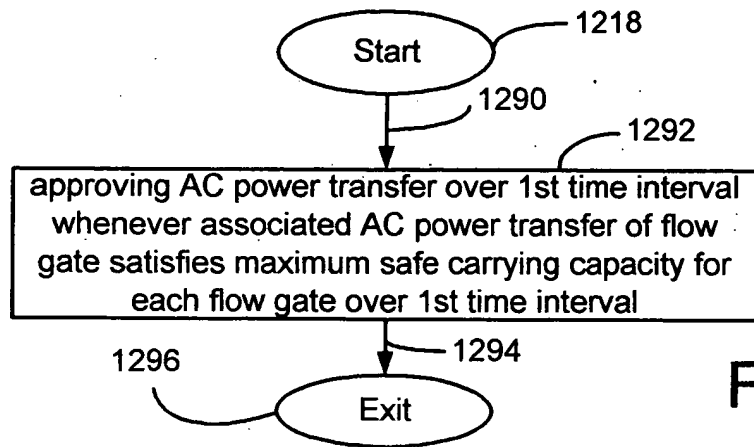


Fig. 17

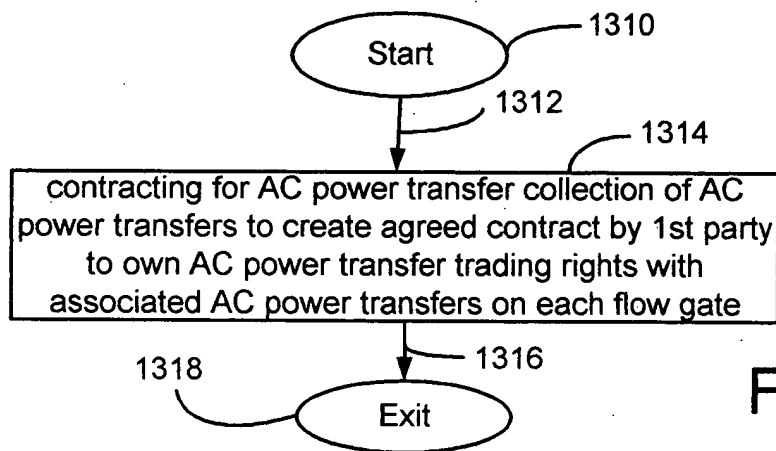


Fig. 18

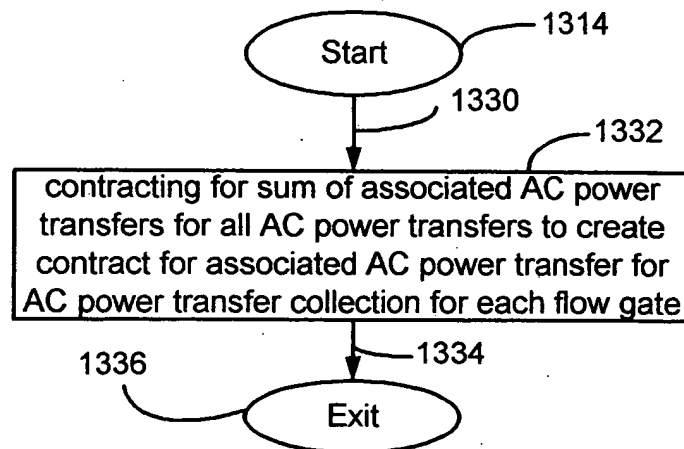


Fig. 19

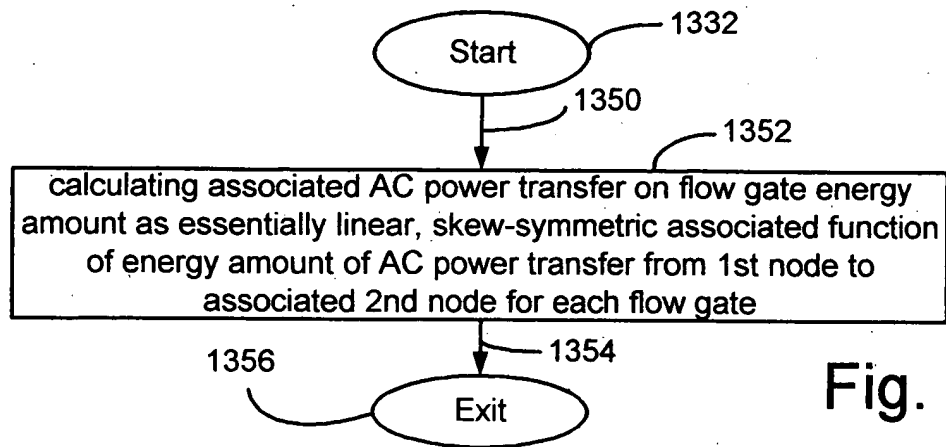


Fig. 20

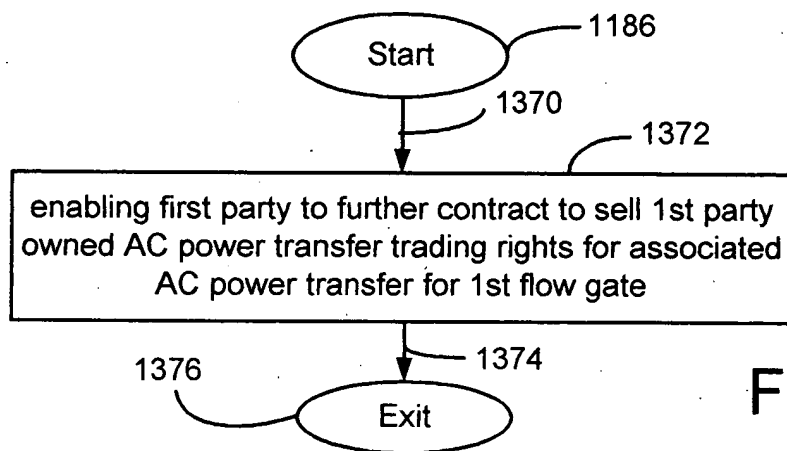


Fig. 21

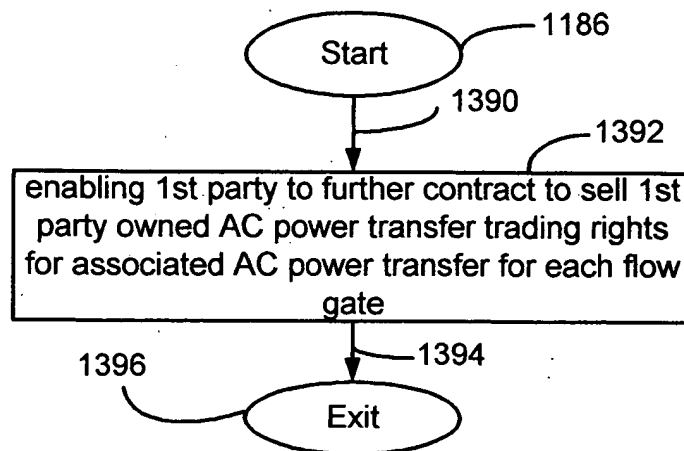


Fig. 22

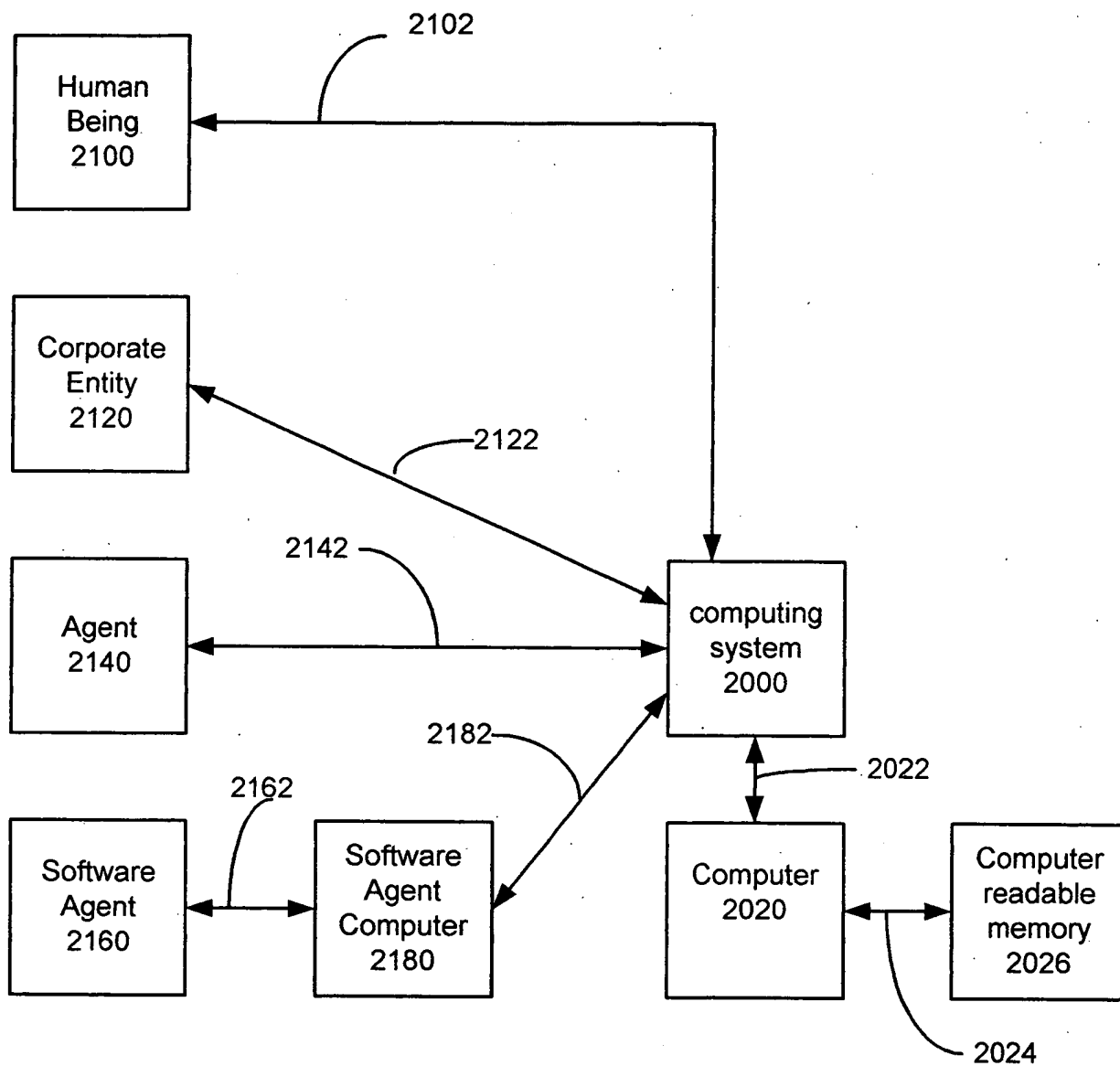


Fig. 23

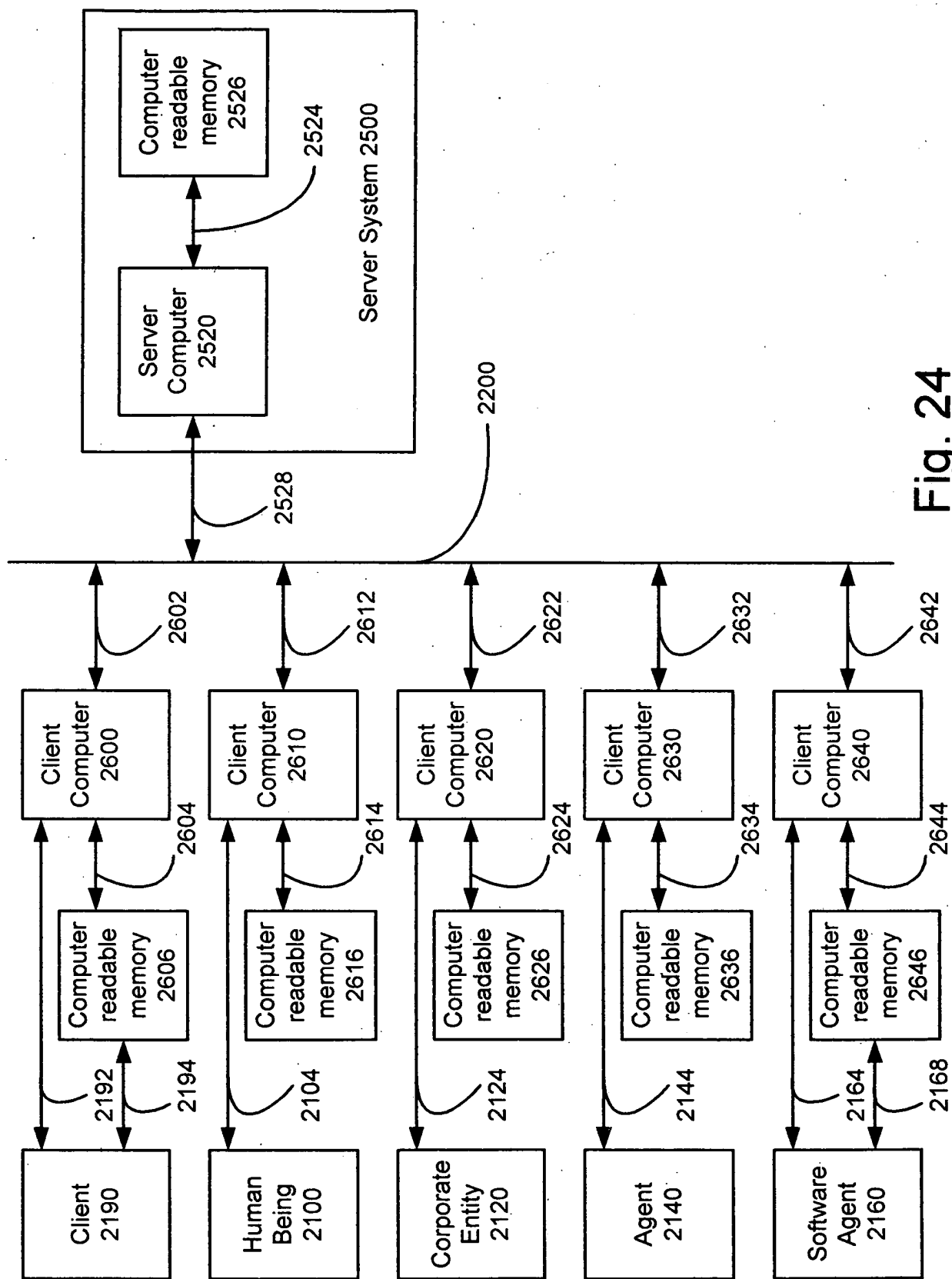


Fig. 24

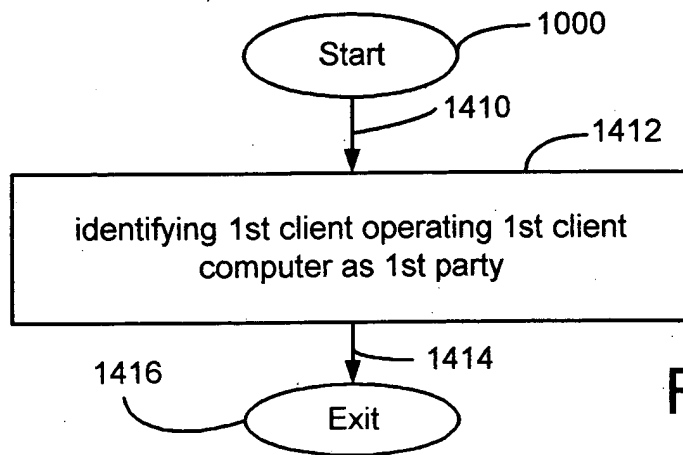


Fig. 25A

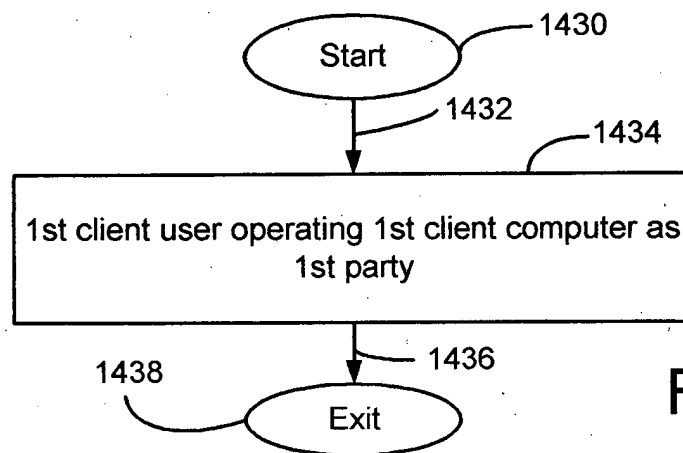


Fig. 25B

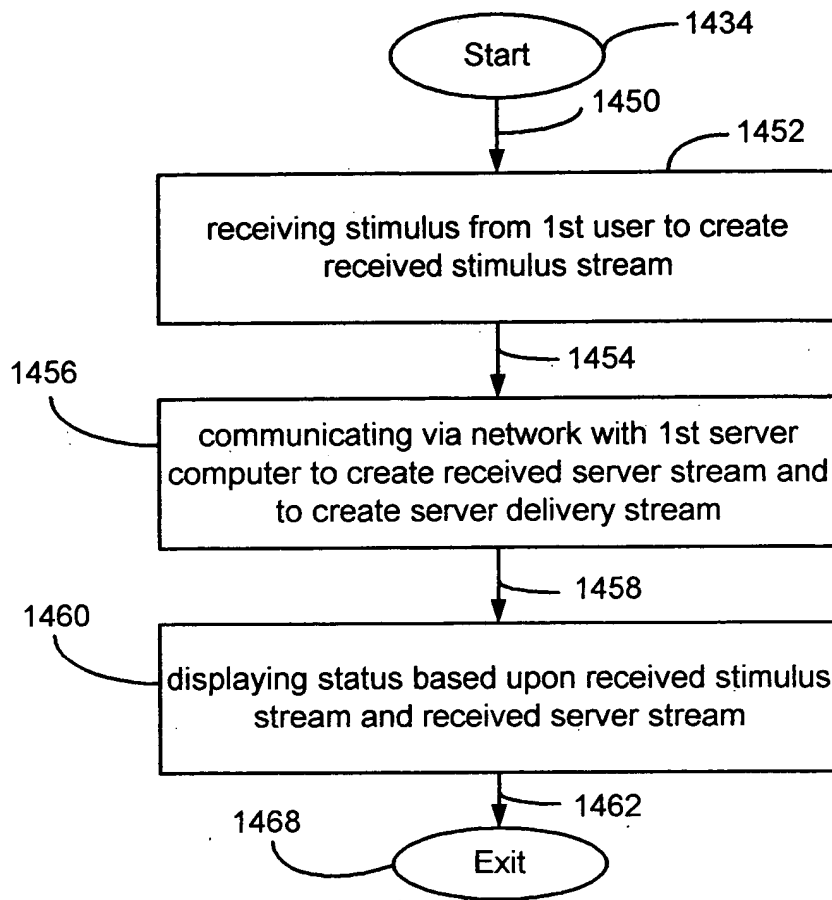


Fig. 26

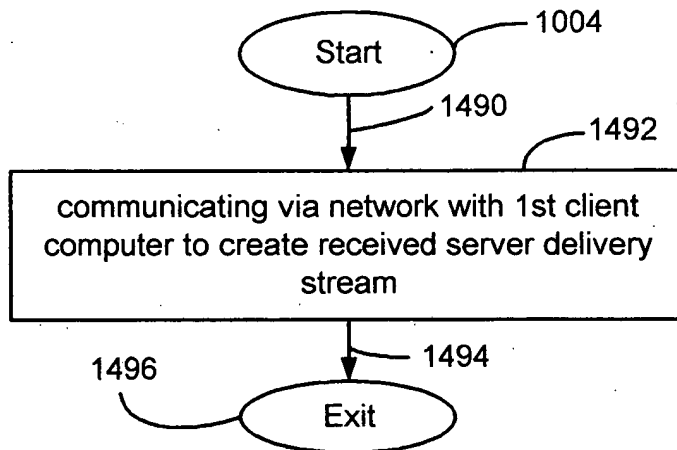


Fig. 27

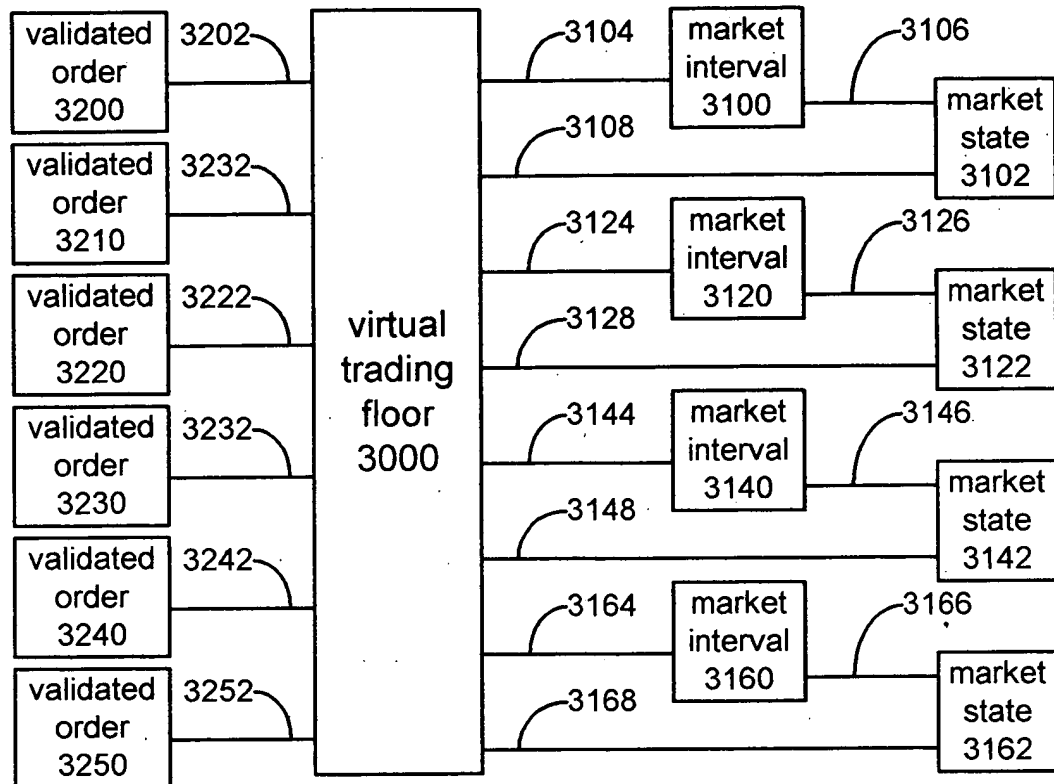


Fig. 28

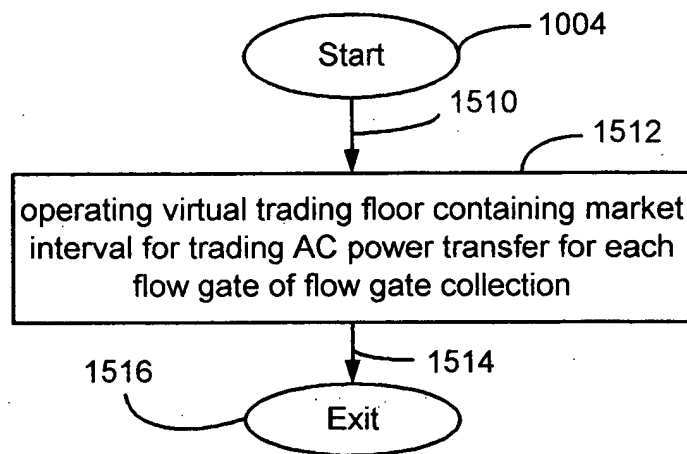


Fig. 29

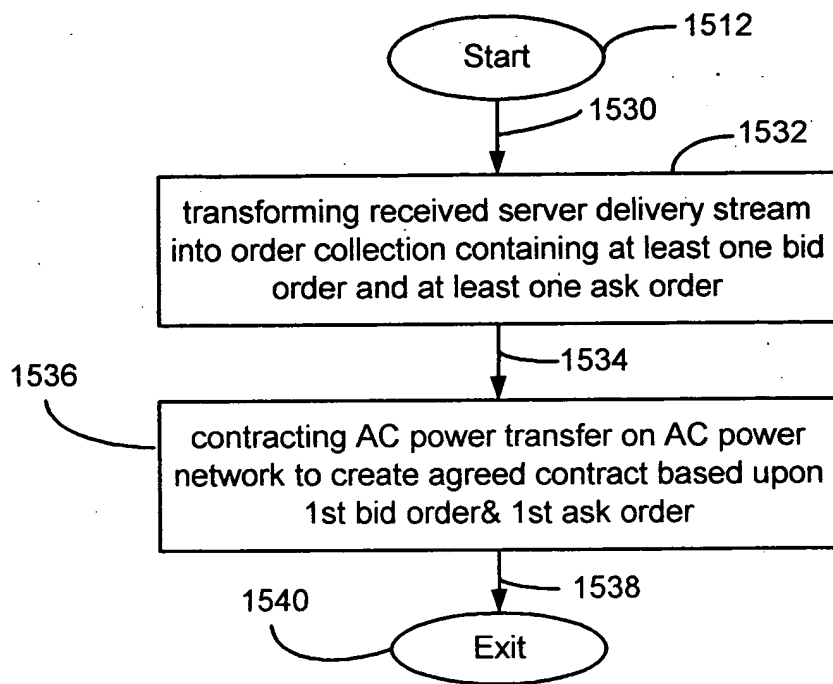


Fig. 30

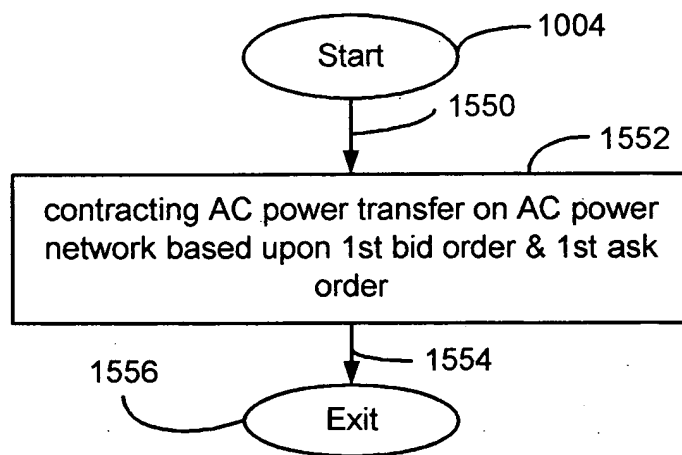


Fig. 31

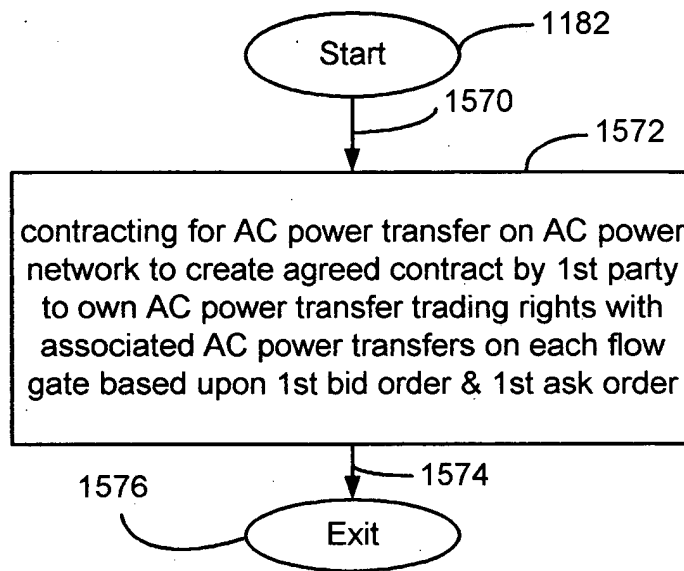


Fig. 32

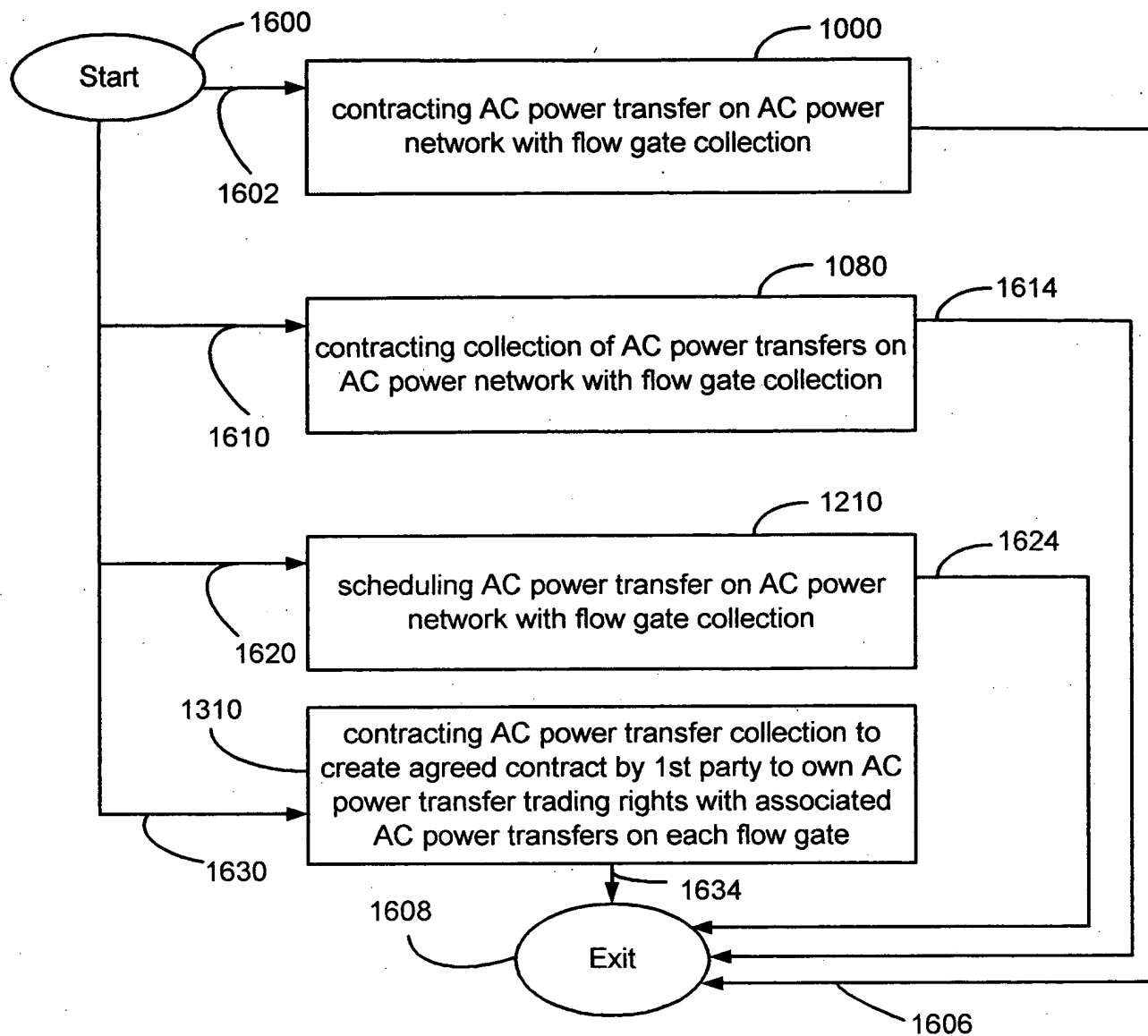


Fig. 33A

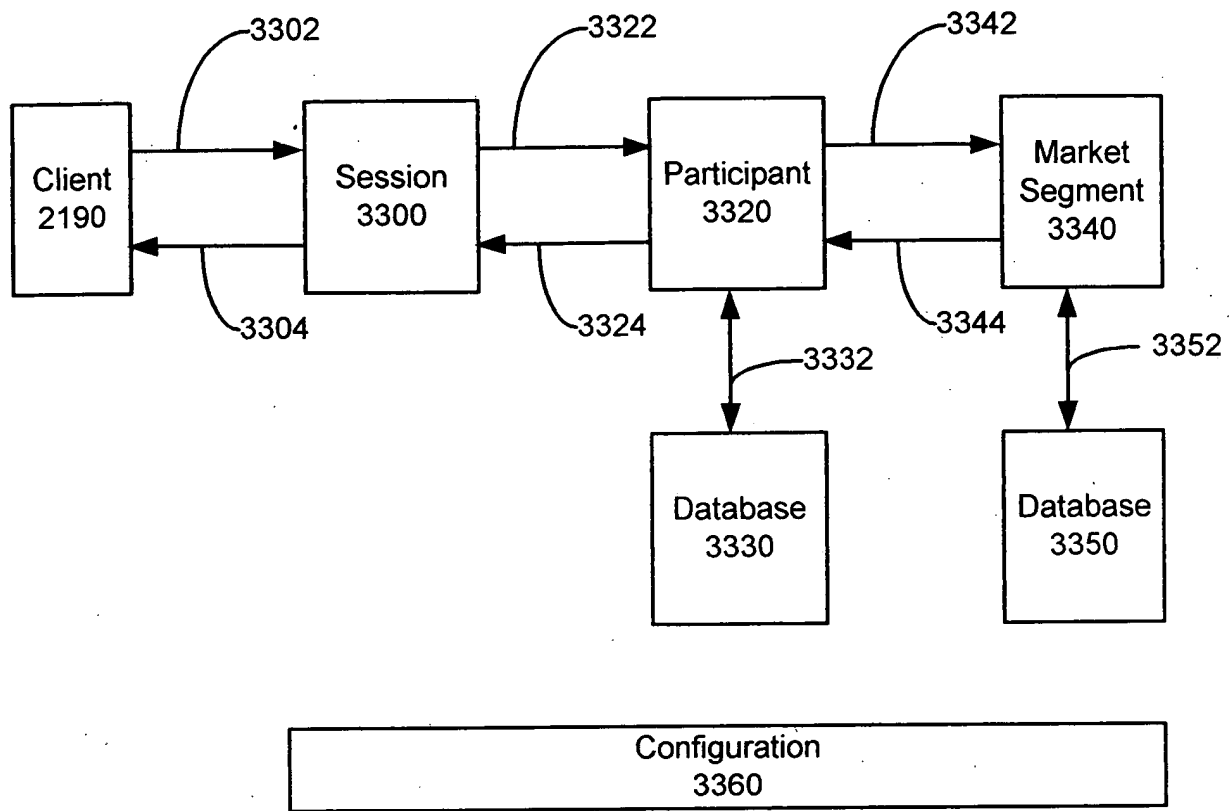


Fig. 33B

2000 2000 2000 2000 2000 2000 2000 2000 2000 2000

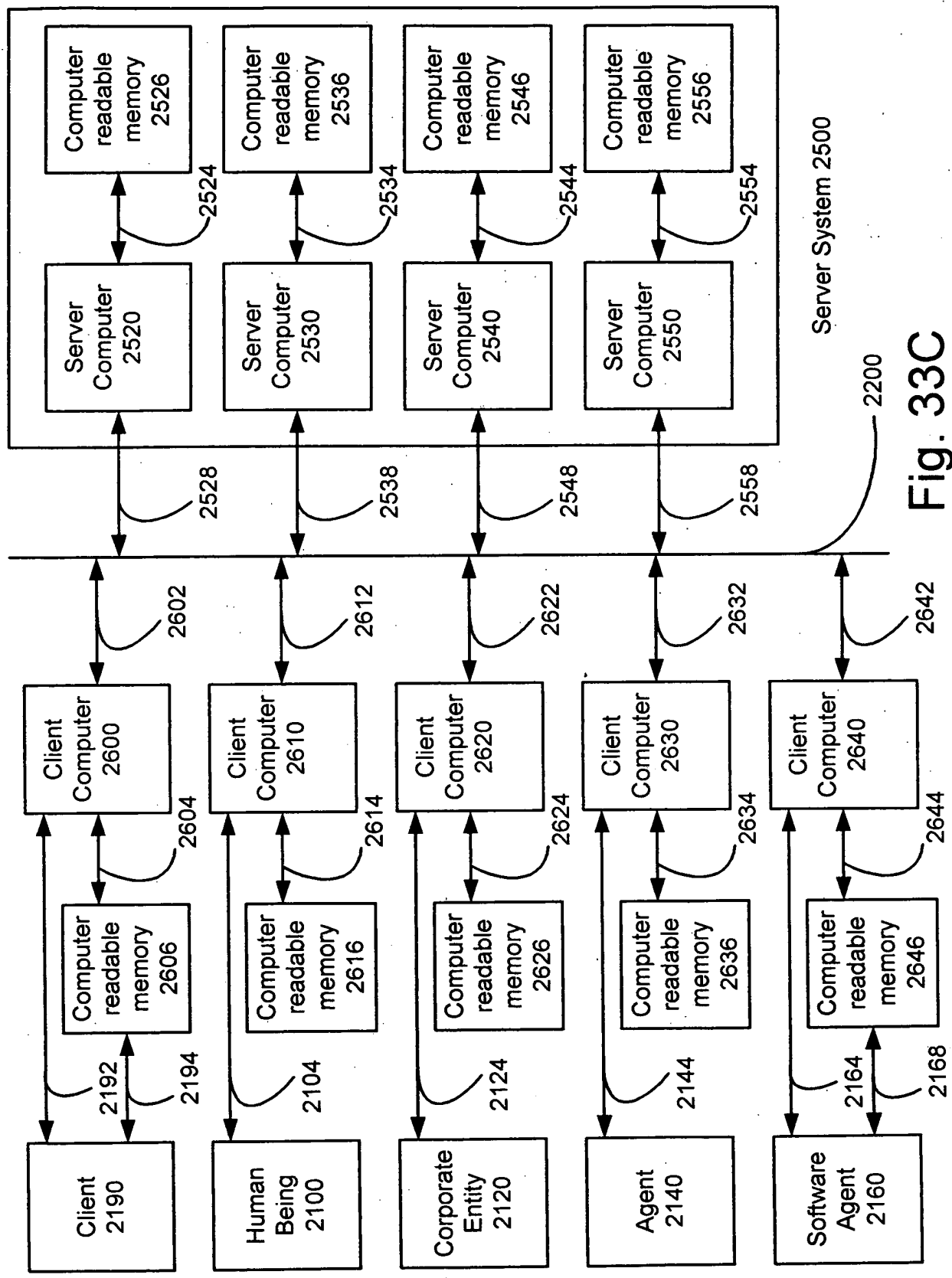


Fig. 33C

APX Market Window (TM) (Generation Resources (Participant Sale))

File Edit View Order Message Tools Window Help

Generation

November 1998

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

11/10/98 11/11/98

GMM

Unit: COCOPP_7_Unit 1

Sell APX Zone: Illinois

Commodity: Hourly Energy

Display Options: MW's of Total Only

Market Depth: Highest Bid & Lowest Ask

☐ Min & Max Order Allowed

☐ Local Time (GMT-05:00) Eastern Time

☐ Generation Curve

Order Options

☐ At Market ☒ Limit

☐ Use Withdraw Date & Time

☐ Display order summary when submitting order(s)

☐ Display warning for orders outside native zone

☐ Only order in round lot multiple of 25 MW

Transfer Out	Market Time	Market Price (\$/MWh)	Contracted Position (Net MW)	Pending Position (NetMW)	Total Position (Net MW)	Highest Bid (\$/MWh)	Highest Bid (\$/MWh)	Lowest Ask (\$/MWh)	Lowest Ask (\$/MWh)	New Order (Net MW)	Limit Price (\$/MWh)	Limit Range
Import	Ending (ST)											
Export	1	14.54	0.00	0.00	0.00							
	2	12.17	0.00	0.00	0.00	36.59	11.20	35.99	12.43			
	3	12.96	12.00	13.00	25.00	26.98	11.71	38.84	14.21	25.00	20.00	Or More
Transmission	4	14.45	12.00	13.00	25.00	32.41	12.99	40.76	15.40	25.00	20.00	Or More
	5	18.17	12.00	13.00	25.00	39.55	17.61	29.77	18.76	25.00	20.00	Or More
	6	19.91	12.00	13.00	25.00	45.61	18.02	25.56	20.54	25.00	20.00	Or More
Initiate Bilateral	7	22.31	25.00	0.00	25.00	40.33	20.89	34.16	23.17	25.00	20.00	Or More
	8	22.42	25.00	0.00	25.00	50.94	22.39	43.08	24.12	25.00	20.00	Or More
	9	23.47	25.00	0.00	25.00	59.49	22.40	40.09	25.28	25.00	20.00	Or More
	10	24.05	25.00	0.00	25.00	61.26	24.05	46.29	25.28	25.00	20.00	Or More
Confirm Bilateral	11	24.17	25.00	0.00	25.00	26.94	24.17	50.06	24.71	25.00	20.00	Or More
	12	23.73	25.00	0.00	25.00	26.85	23.73	45.69	26.09	25.00	20.00	Or More
	13	23.30	25.00	0.00	25.00	35.01	23.19	46.22	25.39	25.00	20.00	Or More
Portfolio Manager	14	21.26	25.00	0.00	25.00	51.60	20.62	42.48	25.39	25.00	20.00	Or More
	15	22.37	25.00	0.00	25.00	56.34	21.99	44.09	24.04	25.00	20.00	Or More
	16	22.53	25.00	0.00	25.00	53.21	22.05	40.71	24.19	25.00	20.00	Or More
	17	22.75	25.00	0.00	25.00	28.80	21.40	42.38	23.75	25.00	20.00	Or More
Orders	18	23.80	25.00	0.00	25.00	48.05	23.58	40.24	25.05	25.00	20.00	Or More
	19	24.75	25.00	0.00	25.00	38.89	24.05	34.85	26.81	25.00	20.00	Or More
	20	24.98	25.00	0.00	25.00	38.48	24.93	37.47	26.37	25.00	20.00	Or More
Graphs	21	24.07	25.00	0.00	25.00	31.43	23.64	31.10	25.47	25.00	20.00	Or More
	22	21.12	25.00	0.00	25.00	40.56	21.07	43.59	23.98	25.00	20.00	Or More
	23	19.83	12.00	0.00	25.00	43.24	17.75	31.24	21.01	25.00	20.00	Or More
Market Depth	24	17.06	12.00	0.00	25.00	41.08	15.27	33.41	19.29	25.00	20.00	Or More

Submit Withdraw Summary

Save Refresh

Fig. 34

Fig. 35

4200

APX Market Window (TM) (Flowgate Trading)																																																								
File Edit View Order Message Tools Window Help																																																								
<div style="display: flex; justify-content: space-between;"> <div> <p>May 1999</p> <table border="1" style="font-size: 0.8em;"> <tr><td>Sun</td><td>Mon</td><td>Tue</td><td>Wed</td><td>Thu</td><td>Fri</td><td>Sat</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2">5/10/99</td><td colspan="2"></td><td colspan="2"></td><td>5/10/99</td></tr> </table> </div> <div> <p>Flowgate Commodity</p> <div style="border: 1px solid black; padding: 2px;">COCOPP 7 Unit 1</div> <div style="border: 1px solid black; padding: 2px;">Hourly Flowgate</div> </div> </div>						Sun	Mon	Tue	Wed	Thu	Fri	Sat	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						5/10/99						5/10/99	<p>4202</p> <p>Order Options</p> <p><input type="checkbox"/> At Market <input checked="" type="radio"/> Limit</p> <p><input type="checkbox"/> Use Withdraw Date & Time</p> <p><input type="checkbox"/> Display order summary when submitting order(s)</p> <p><input checked="" type="checkbox"/> Display warning for orders outside native zone</p> <p><input type="checkbox"/> Only order in round lot multiple of 25 MW</p>	
Sun	Mon	Tue	Wed	Thu	Fri	Sat																																																		
1	2	3	4	5	6	7																																																		
8	9	10	11	12	13	14																																																		
15	16	17	18	19	20	21																																																		
22	23	24	25	26	27	28																																																		
29	30																																																							
5/10/99						5/10/99																																																		
<p>Display Options</p> <p>Market Depth <div style="border: 1px solid black; padding: 2px;">None</div></p> <p><input type="checkbox"/> Min & Max Order Allowed</p> <p><input type="checkbox"/> Local Time <div style="border: 1px solid black; padding: 2px;">(GMT-00:00) GMT Time</div></p>																																																								
Market Time	Market Price (\$/MWh)	Contracted Position (Net MW)	Pending Position (NetMW)	Total Position (NetMW)	New Order (NetMW)	Limit Price (\$/MWh)	Limit Range	N0CA->SoCA Contracted Flow (Net MW)	N0CA->SoCA Pending Flow (Net MW)	N0CA->SoCA Total Flow (Net MW)																																														
Ending (DT)																																																								
1	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
2	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
3	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
4	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
5	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
6	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
7	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
8	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
9	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
10	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
11	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
12	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
13	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
14	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
15	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
16	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
17	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
18	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
19	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
20	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
21	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
22	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
23	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
24	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																														
<div style="display: flex; justify-content: space-around;"> <div>Submit</div> <div>Withdraw</div> <div>Summary</div> </div>		<div style="display: flex; justify-content: space-around;"> <div>Save</div> <div>Refresh</div> </div>																																																						

Fig. 36